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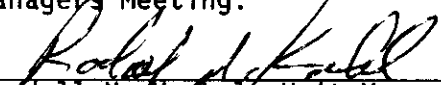
Meeting Minutes Transmittal - Approved

0036271

Unit Managers' Meeting
200 West Area Ash Pit Demolition Site Closure Plan
2440 Stevens Center Place, Room 2519
Richland, Washington

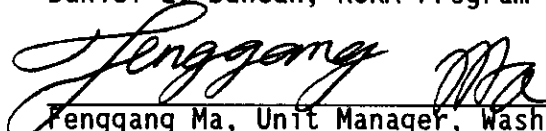
Meeting Held March 23, 1994
From 8:00 to 9:00 a.m.

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Unit Managers' Meeting.


Randall N. Krekel, Unit Manager, RL Date: 4-20-94

NOT PRESENT

Daniel L. Duncan, RCRA Program Manager, EPA Region 10 Date: _____


Fenggang Ma, Unit Manager, Washington State Department of Ecology Date: 4/20/94

200 West Area Ash Pit Demolition Site Closure Plan, WHC Concurrence


Fred A. Ruck III, Contractor Representative, WHC Date: 4/26/94

Purpose: Discuss Permitting Process

Meeting Minutes are attached. The minutes are comprised of the following:

- Attachment 1 - Agenda
- Attachment 2 - Summary of Discussion and Commitments/Agreements
- Attachment 3 - Attendance List
- Attachment 4 - Action Items
- Attachment 5 - Sampling and Analysis Plan Agreement Package



4821-0226-116
947320-4284

Attachment 1

**Unit Managers' Meeting
200 West Area Ash Pit Demolition Site Closure Plan
2440 Stevens Center Place, Room 2519
Richland, Washington**

**Meeting Held March 23, 1994
From 8:00 to 9:00 a.m.**

Agenda

1. Approval of Past UMM Minutes
2. Status Action Items
-No open action items
3. Status Closure Activities
-Status of NOD Comments Response Table
4. New Business
-Open Discussion
5. Set Next Meeting Date

9413220.4285

Attachment 2

Unit Managers' Meeting
200 West Area Ash Pit Demolition Site Closure Plan
2440 Stevens Center Place, Room 2519
Richland, Washington

Meeting Held March 23, 1994
From 8:00 to 9:00 a.m.

Summary of Discussion and Commitments/Agreements

1. Approval of Past UMM Minutes

The February 25, 1994, Unit Managers' Meeting Minutes were reviewed and signed by the Ecology and RL Unit Managers.

2. Status Action Items:

-No Open Action Items

There was no discussion.

3. Status Closure Activities:

-Status NOD Comments (On Schedule)

WHC (D. M. Korematsu-Olund) reviewed the Sampling Analysis Plan (SAP) agreements discussed at the Data Quality Objective (DQO) meeting held on March 10, 1994. The agreement was to look for volatiles, semivolatiles, metals, detonation residues, anions, nitrates and nitrites with a total of 9 samples (plus 3 Quality Assurance samples). While reviewing the surface sample locations, Ecology (F. Ma) requested that the location for one of the samples designated within the first radii be changed. WHC (D. Korematsu-Olund) agreed to the change for the sample location. This change is incorporated in attachment #5. All parties (Ecology, RL, and WHC) concurred with all final SAP agreements presented (see attachment #5).

RL (R. N. Krekel) requested that at the next UMM, WHC provide a completion date for the draft SAP. WHC (D. M. Korematsu-Olund) agreed to follow up on the status of the SAP.

4. New business:

-Open discussion

No new business.

5. Set new meeting date:

The next Unit Managers Meeting was scheduled for April 20, 1994 8:00-10:00 a.m. Richland, WA.

940320-4286

**Unit Managers' Meeting
200 West Area Ash Pit Demolition Site Closure Plan
2440 Stevens Center Place, Room 2519
Richland, Washington**

From 8:00 to 9:00 a.m.

[illegible]

Attachment 4

**Unit Managers' Meeting
200 West Area Ash Pit Demolition Site Closure Plan
2440 Stevens Center Place, Room 2519
Richland, Washington**

**Meeting Held March 23, 1994
From 8:00 to 9:00 a.m.**

Action Items

Action Item #

Description

3-23-94:

No action items resulted from this meeting.

940320.4288

Attachment 5

**Unit Managers' Meeting
200 West Area Ash Pit Demolition Site Closure Plan
2440 Stevens Center Place, Room 2519
Richland, Washington**

**Meeting Held March 23, 1994
From 8:00 to 9:00 a.m.**

Sampling and Analysis Plan Agreement Package

6824-0726746
9/4/2004 289

200 West Area Ash Pit

Information Sheet

List of Discarded Explosive Chemicals-see attachment 1ashpit.

Original size of the pit at time of detonation: 3 feet in diameter and 1 foot (max.) deep, pit sloped to center.

There were two separate detonation events, two years apart.

Detonation Date: Nov. 1984.

Weather conditions were approx. 45°F, winds less than 15 mph, no rain or snow.

Detonation Date: June 25, 1986.

Weather conditions were approx. 95°F, winds @ 10 mph, clear sky, no rain.

During the June 1986 demolition activity, 2 gallons of unleaded gasoline was place with the standard detonating products.

All discarded explosive chemicals were contained in their original closed containers until released by the explosion force

062470226446

200 West Area Ash Pit

Sampling and Analysis Plan Agreements

Issue: Type of analysis required

| | |
|-----------------------------------|---|
| <u>SW-846</u> | <u>Tentatively identified compounds (TIC)</u> |
| 8240 | Volatile Organics |
| 8270 | Semi Volatile Organics |
| 6010 | Metals |
| 8330 | Detonation Residues |
| EPA 300.0 | Anions |
| EPA 353.1 or 353.2 or 353.3 | Nitrate-Nitrite |

Unleaded Gasoline components can be identified under TIC, using method SW-846 8270.

Issue: Site Sampling locations and field procedures

Field Procedures

-Remove wind blown sand to expose pit bottom.

Sampling Area

-Sample within 3 concentric sections that radiate out from the center of the site. (See attached diagram for detailed locations of sampling sites and sampling depths).

-9 surface samples. 1 located at the center of the pit
(0-12 inches deep) 3 located within the first radii
4 located within the second radii
1 located within the third radii

-1 sample taken at a depth between 12-18 inches in the center of the pit

-Field QC Samples: 1 duplicate (located at center 0-6")
1 equipment blank (clean silica sand)
1 trip blank (clean silica sand)

-No compositing samples

Issue: Hits

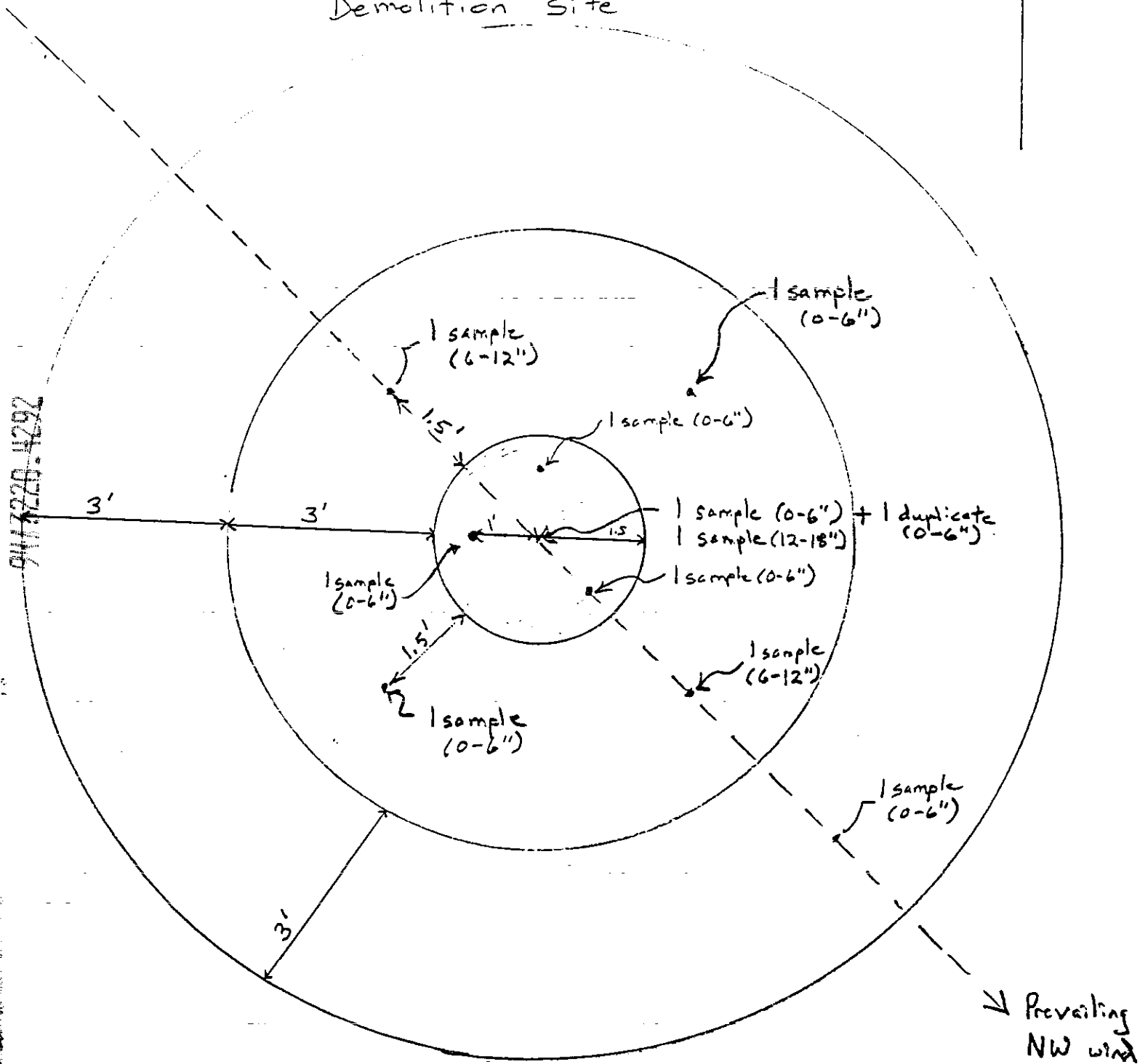
Hits- chemical concentrations above Site Wide Background (when finalized) and MTCA residential levels. Analytes from the inventory list and/or the detonation residues, that have sufficient information to calculate MTCA residential levels, will be used to evaluate the presence of contamination.

If Hits are determined then we go back and work together to establish a new approach to sampling, a newly defined boundary based on distributions observed in Phase I sample.

If NO Hits are determined then there is nothing there and no further sampling is warranted.

167-5728746
947322-1291

200-West Area Ash Pit Demolition Site



Field QC Samples

- 1 Duplicate (located at center 0-6")
- 1 Equipment Blank (clean silica sand)
- 1 Trip Blank (clean silica sand)

→ 1' ←

Environmental Characterization Samples → 10

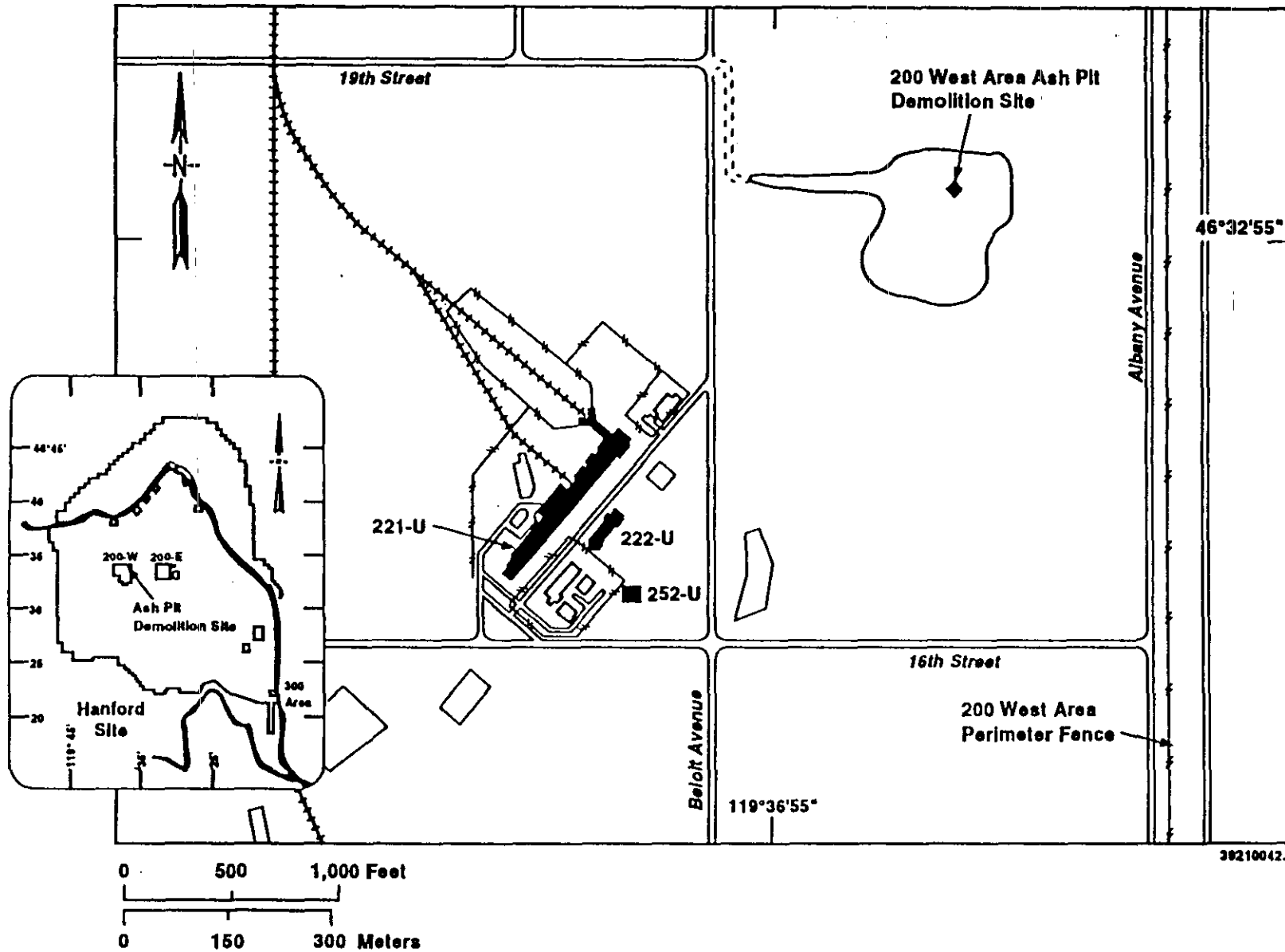
| Date | Chemical I. D. | Cas # | Quantity (kg.) | flash point °C (°F) | vapor press. 20°C mmHg | Dangerous Waste Number | Source |
|-----------|---------------------------------|-----------|----------------|------------------------|---------------------------|------------------------------------|--------|
| Nov. 1984 | benzene | 71-43-2 | 9.47 | -11 (12) | 75 | WTO2, U019, WC01, D001, D018 | E |
| | bis(2-chloroethoxy) ethane | 112-26-5 | 3.28 | 121 (250) | 0.1 | WT02, WP01 | DJR |
| | bromobenzene | 108-88-1 | 17.29 | 51 (124) | 5.0 @ 27.8°C | WT02, WP01, D001 | DJR |
| | 2-butoxyethanol | 111-76-2 | 3.28 | 62 (143) | 0.76 | WT02 | DJR |
| | cyclohexane | 110-82-7 | 3.61 | -20 (-4) | 95 | U056, D001 | DJR |
| | diisopropyl benzene | 577-55-9 | 6.61 | 76.6 (170) | NO DATA | WT02 | DJR |
| | 1, 4 dioxane | 123-91-1 | 4.69 | 12 (54) | 27 | WT02, U108, WC01, D001 | DJR |
| | ethylene glycol monoethyl ether | 110-80-5 | 1.05 | 42 (108) | 3.8 | WT02, D001 | DJR |
| | glycerin | 56-81-5 | 7.52 | 160 (320) | .0025 @ 50°C | NON-REGULATED | D, # |
| | naphtha | 8030-30-6 | 1.17 | -50 (-57) | 40 | D001 | DJR |
| | nitromethane | 75-52-5 | 3.94 | 35 (95) | 27.8 | WT02, D001, D003 | DJR |
| | tetrahydrofuran | 109-99-9 | 15.79 | -14 (6) | 145 | WT02, U213, D001 | DJR |
| | tetrahydronaphthalene | 119-64-2 | 6.58 | 71 (160) | 1.0 @ 38°C | WT02 | DJR |
| 6/25/86 | acrolein | 107-02-8 | 0.4 | -17 (-2) | 220 | WT01, PO03 | DJR |
| | aluminum chloride | 7446-70-0 | 0.45 | not flammable | 1.0 @ 100°C | WT02, D002, D003 | DJR |
| | 2-butoxyethanol | 111-76-2 | 0.95 | 62 (143) | 0.76 | WT02 | DJR |
| | chromium metal powder | 7440-47-3 | 0.45 | NO DATA | 1.0 @ 1616°C | D007 | DJR |
| | dimethyl hydrazine | 57-14-7 | 0.01 | -15 (5) | 157 @ 25°C | WT02, U098, WC01, D001 | DJR |
| | ethyl ether | 60-29-7 | 28 | -45 | 442 | WT02, U117, D001 | DJR |
| | hydrazine | 302-01-2 | 1 | 38 (100) | 10.4 | WT02, U133, WC01, D001, D002, D003 | DJR |
| | isopropyl ether | 108-20-3 | 1 | -28 (-18) | 130 | WT02, D001 | DJR |
| | lithium hydride | 7580-67-8 | 0.23 | NO DATA | 0 | D001, D003 | DJR |
| | p-nitrobenzoyl chloride | 122-04-3 | 0.1 | NO DATA | negligible | NON-REGULATED | DJR |
| | phenyl ether | 101-84-8 | 0.24 | 115 (239) | .02 @ 25°C | WT02, D001 | DJR |
| | picric acid | 88-89-1 | 0.2 | 160 | 1 | D003 | DJR |
| | picryl chloride | 88-88-0 | 0.3 | NO DATA | NO DATA | D003 | DJR |
| | sodium peroxide | 1313-60-6 | 0.34 | NO DATA | NO DATA | D001, D003 | DJR |
| | tetrahydrofuran | 109-99-9 | 6.1 | -14 (6) | 145 | WT02, U213, D001 | DJR |
| | triethylborane in hexane | 97-94-9 | 0.5 | 35.5 (-32) | NO DATA | WT02, D001, D003 | DJR |
| | benzene (20%) | 71-43-2 | total amt. 5.0 | -11 (12) | 75 | WTO2, U019, WC01, D001, D018 | DJR |
| | ethyl acetate (20%) | 141-78-6 | | -4 | 73 | U112, D001, D003 | |
| | ethyl ether (10%) | 60-29-7 | | -45 | 442 | WT02, U117, D001 | |
| | hydrogen sulfide (1.0%) | 7783-06-4 | | NO DATA | 15200 @ 25°C | U135, D001 | |
| | methanol (25%) | 67-56-1 | | 11 (52) | 97.25 | WT02, U154, D001 | |
| | tetrahydrofuran (10 %) | 109-99-9 | | -14 (6) | 145 | WT02, U213, D001 | |
| | toluene (10 %) | 108-88-3 | | 4 (40) | 22 | WT02, U220, D001 | |
| | benzene | 71-43-2 | total amt. 4.0 | -11 (12) | 75 | WTO2, U019, WC01, D001, D018 | DJR |
| | ethyl acetate | 141-78-6 | | 7.2 () | 73 | U112, D001, D003 | |
| | ethyl ether | 60-29-7 | | -45 | 442 | WT02, U117, D001 | |
| | petroleum ether | 8032-32-4 | | 0.0 (32) | NO DATA | D001 | |
| | toluene | 108-88-3 | | 16 | 22 | WT02, U220, D001 | |
| | di-ethyl ether (50%) | 60-29-7 | total amt. 4.0 | -45 (-49) | 442 | WT02, U117, D001 | |
| | heptane (50%) | 142-82-5 | | -4 (25) | 40 | D001 | |
| | allyl magnesium bromide (22%) | 1730-25-2 | total amt. 1.0 | NO DATA | NO DATA | NO DATA | |
| | ethyl ether (78%) | 60-29-7 | | -45 (-49) | 442 | WT02, U117, D001 | |
| | benzene | 71-43-2 | total amt. 1.0 | -11 (12) | 75 | WTO2, U019, WC01, D001, D018 | |
| | butyllithium | 109-72-8 | | (-1.0) | NO DATA | D001, D003 | |
| | hexane | 110-54-3 | | -22.7 (-9) | 124 | D001 | DJR |
| | tetrahydrofuran | 109-99-9 | | -14 (6) | 145 | WT02, U213, D001 | |

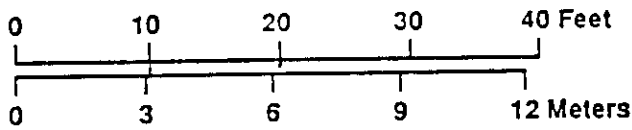
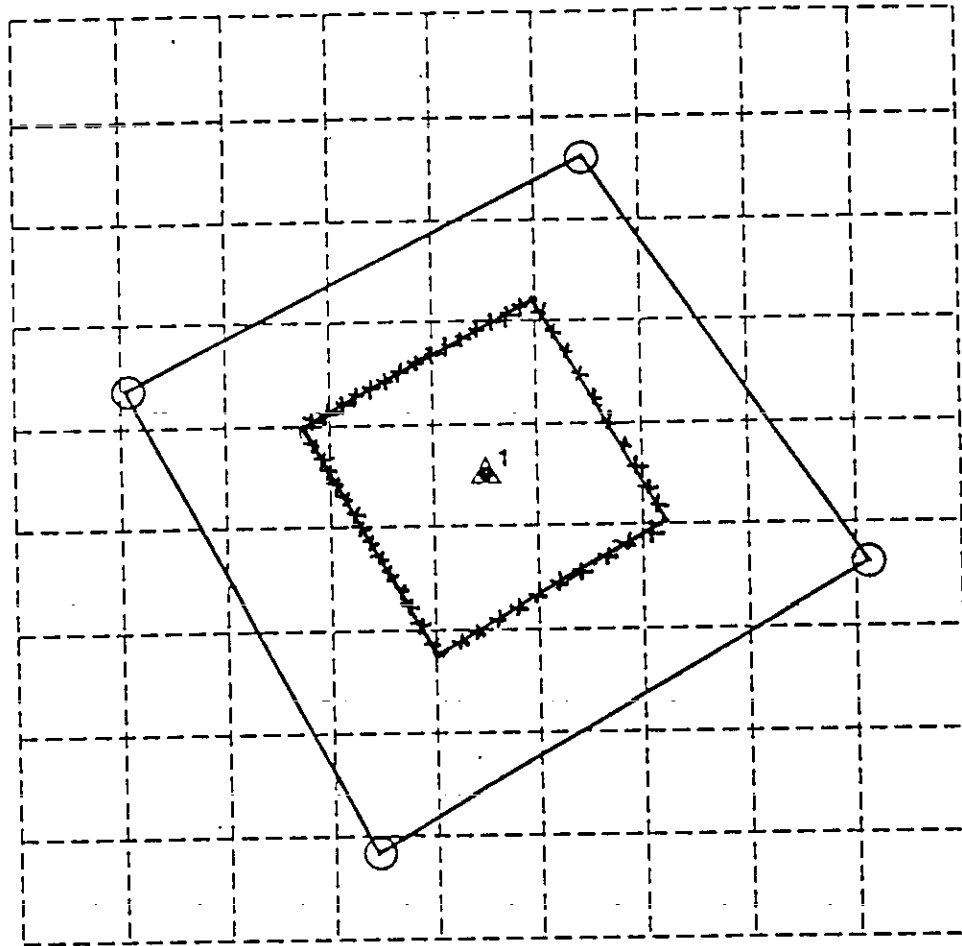
9473220-4293



9473220.4294

200 West Area Ash Pit Demolition Site Site Plan





Sample Locations

- 1 - N: 39,759.0, W: 71,546.8

Monument Locations

- NW - N: 39,766.0, W: 71,574.6
- SW - N: 39,730.0, W: 71,555.5
- NE - N: 39,783.9, W: 71,539.3
- SE - N: 39,751.7, W: 71,518.2

—x—x—x—x— Approx. location of chain fence

△ Surface Sample Location
H9209025.2

Figure 7-1. Soil Sample Locations for the 200 West Ash Pit Demolition Site.

Distribution

| | | |
|-----------------------|-------------|--------|
| J. K. Bartz | GSSC | B1-42 |
| R. E. Bolts | WHC | T3-04 |
| R. M. Carosino | RL | A4-52 |
| D. L. Duncan | EPA-Seattle | HW-106 |
| D. M. Korematsu-Olund | WHC | H6-23 |
| R. N. Krekel | RL | A5-15 |
| J. G. Lucas | WHC | H6-04 |
| F. Ma | Ecology | B5-18 |
| P. J. Macbeth | MACTEC | R3-82 |
| E. D. Macalister | RL | R3-80 |
| P. J. Mackey | WHC | B3-15 |
| R. D. Pierce | WHC | T3-04 |
| S. M. Price | WHC | H6-23 |
| M. R. Romsos | WHC | T3-04 |
| F. A. Ruck III | WHC | H6-23 |
| W. A. Skelly | WHC | H6-03 |
| J. L. Waite | WHC | B2-35 |
| Field File Custodian | WHC | H6-08 |
| GHL/RCRA File | WHC | H6-23 |

ADMINISTRATIVE RECORD: 200 West Area Ash Pit Demolition Site Closure Plan,
T-2-2 [Care of EDIC, WHC (H6-08)]

Washington State Department of Ecology Nuclear and Mixed Waste Hanford Files,
P.O. Box 47600, Olympia, Washington 98504-7600

Environmental Protection Agency Region 10, Seattle, Washington 98101,
(Record Center)-Mail Stop HW-074

Please send comments on distribution list to Kym Tarter (H6-23), 376-4701.

9624-0728/16
9473220 4296